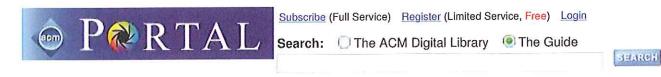
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## Time-Critical Software Deceleration in an FCCM

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Computing Machines table of contents

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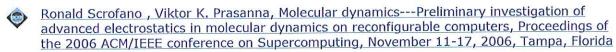
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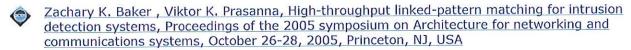
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#### **↑** ABSTRACT

In this paper, we explore two important latency issues associated with using an embedded processor as an assistant to programmable logic within a logic-centric system implemented on aplatform FPGA. The context is that of the 'software decelerator' - a term introduced by the authors in 2003 to describe a logic-centric counterpart of the familiar hardware accelerator. We first focus on minimizing latency in the logic-processor interface, introducing an efficient interrupt-driven control mechanism. Then, in the context of a case study on packet address lookup, we focus on minimizing latency in memory interfaces, using the processor's hardware cache mechanism for assistance.

#### **↑ CITED BY 3**





Scott Sirowy, Greg Stitt, Frank Vahid, C is for circuits: capturing FPGA circuits as sequential code for portability, Proceedings of the 16th international ACM/SIGDA symposium on Field programmable gate arrays, February 24-26, 2008, Monterey, California, USA

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Dennis Bemmann: <u>colleagues</u>

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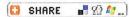
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